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3641

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO.

09/832,020 04/11/01 HUSSEINI N 032391-004

EXAMINER

PM82/1102

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ART UNIT PAPER NUMBER

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DATE MAILED: 11/02/01

Please find below and/or attached an Office communication concerning this application or

Commissioner of Patents and Trademarks

proceeding.

Office Action Summary		Application No.	Applicant(s)
		09/832,020	HUSSEINI ET AL.
		Examin r	Art Unit
		Lulit Semunegus	3641
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).			
Status	Personaliza to communication(s) filed on		
1) 🗌	Responsive to communication(s) filed on		
2a) ☐	,—	s action is non-final.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.			
Disposition of Claims			
4)⊠ Claim(s) <u>59-113</u> is/are pending in the application.			
4a) Of the above claim(s) <u>78-113</u> is/are withdrawn from consideration.			
5) Claim(s) is/are allowed.			
6)∭ Claim(s) <u>59-77</u> is/are rejected.			
7)	Claim(s) is/are objected to.		
8) Claim(s) _ are subject to restriction and/or election requirement.			
Application Papers			
9) The specification is objected to by the Examiner.			
10)⊠ The drawing(s) filed on <u>11 April 2001</u> is/are: a)⊡ accepted or b)⊠ objected to by the Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).			
11) The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.			
If approved, corrected drawings are required in reply to this Office action.			
12)☐ The oath or declaration is objected to by the Examiner.			
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:			
1. Certified copies of the priority documents have been received.			
2. Certified copies of the priority documents have been received in Application No			
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 			
14)⊠ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).			
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.			
Attachment(s)			
1) Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) aation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 Notice of Informal P	(PTO-413) Paper No(s) atent Application (PTO-152)

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DETAILED ACTION

1. Applicant has elected fig. 13-15 without traverse wherein a plastic is molded around a projectile, which reads on claims 59-77 (paper #4 and interview summary).

Drawings

2. The drawings are objected to under 37 CFR 1.83(a) because they fail to show reference number 333 as described in the specification on page 23 line 19. Any structural detail that is essential for a proper understanding of the disclosed invention should be shown in the drawing. MPEP § 608.02(d). Correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless – (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claim 59 is rejected under 35 U.S.C. 102(b) as being anticipated by Vatsvog (5,259,288). Vatsvog discloses a method of making an ammunition article, comprising the steps of: molding plastic around at least a portion of a projectile (12, 110) to form a plastic cartridge casing body (10, 112), which includes a first interior portion, defined by the portion of the projectile (12, 110) a second interior portion (16) having a smaller diameter than the first interior portion (fig.2-3) and separated by a shoulder (20).

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Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 62 and 63 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vatsvog (5,259,288). Vatsvog teaches all the limitations of claims 62-63 as applied to the claims 59 above, except the step of heat bonding or adhesive bonding the projectile to the cartridge casing body. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to heat bond or adhesive bond the projectile to the cartridge casing body as a further step to the molding since it is well known in the art that any conventional method of securing the projectile can be used to secure the projectile to the casing body.
- 7. Claims 60-61 and 64 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vatsvog (5,259,288) in view of Scanlon (3,745,924). Vatsvog teaches all the limitations of claims 60-61 and 64 as taught in claim 59 above except a core pull. Scanlon teaches a core pull (36) having a first end (16) to which the projectile is attached and a second end (22), comprising a method of making an ammunition article which includes: a method of molding the plastic (col.4, line 60 until col.5 line 4) around the core pull such that the core pull and the projectile define an interior volume and a step of removing the core pull form the casing (fig. 8); and where the plastic is molded

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around the portion of the projectile that the plastic enters a recess in the portion of the projectile and forms a flange on the casing extending in the recess (fig. 1).

8. Claims 65-77 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vatsvog (5,259,288) in view of Boutwell (3,144,827).

As to claims 65-67 and 69-77, Vatsvog disclose all the limitations of claims 65-67 and 69-77 as applied to claim 59 above, except a base attached to the second end and steps of molding the base from plastic prior to attaching the base to casing and various method of attaching the base to casing. Boutwell teaches an ammunition article comprising: a molded plastic cartridge case body (2, col. 2, line 17) having a closed front-end (6) that reduce in thickness and includes a stress concentrator for tearing of the closed front end (col. 1 line 70 to col. 2, line 6); a second end with a base (1) attached where the base is a molded plastic base (col. 2, lines 18-20) which can be replaceable and is attached mechanically by a locking mechanism (3,5); a primer (9); a propellant charge inside the cartridge casing body (col. 1, lines 68-69); and where the interior volume of the casing includes a first interior portion and a second interior portion where the second interior portion has a smaller diameter than the first interior portion and is separated by a shoulder (fig. 2). At the time of the invention, it would have been obvious to a person of ordinary skill in the art to have a molded base attached with the casing instead of a single piece to have an ammunition article which is easy to assembly and which

consistently performs satisfactorily (col. 3, lines 7-19); and furthermore it would have obvious to a person of ordinary skill in the art to use different methods of attachment means to the base to the casing body such as screw threads, ultrasonic weld, interference fit, adhesive and heat bond since these methods of attachments are well known in the art.

As to claim 68, Vatsvog and Boutwell teach the claimed invention as described above in claims 65-67 and 69-77, except for electronic ignition. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to use electronic ignition instead of a primer for igniting the propellant for greater accuracy and consistent ignition.

Conclusion

- 9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Humpherson (3,424,089) teach a method of making an ammunition case, in particular plastic cases.
- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lulit Semunegus whose telephone number is (703) 306-5960. The examiner can normally be reached on Mon-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Carone can be reached on (703) 306-4198. The fax phone numbers for the organization where this application or proceeding is assigned are (703)

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305-7687 for regular communications and (703) 305-7687 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1113.

.ls

October 30, 2001

Lulit Semunegus Examiner

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MICHAEL LACORE SUPERVISCAY PAY LAT EXAMINER